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December 1976

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METEOROLOGICAL DATA REPORT

03702A HONEST JOHN
MISSILE NO. 1547, ROUND NO. 655 AML
(3 December 1976)

BY

WSMR METEOROLOGICAL TEAM

ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO





ECOM
UNITED STATES ARMY ELECTRONICS COMMAND

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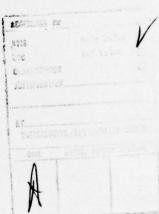
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INTRODUCTION

03702A Honest John, Missile Number 1547, Round Number 655 AML, was launched from CP-7, White Sands Missile Range (WSMR), New Mexico, at 1400 HRS MST, 3 December 1976. The scheduled launch time was 1400 HRS MST.

DISCUSSION

Meteorological data were recorded and reduced by the WSMR Meteorological Team, Atmospheric Sciences Laboratory (ASL), WSMR, New Mexico. The data are presented in the following tabulations.

ELEVATION	4,845.0	FEET/MSI
PRESSURE	851.3	MBS
TEMPERATURE	9.0	°c
RELATIVE HUMIDITY	61	%
DEW POINT	1.9	°c
DENSITY	1,046.0	GM/M ³
WIND SPEED	02	мрн
WIND DIRECTION	100	DEGREES
CLOUD COVER		CLEAR

TABLE I. SURFACE OBSERVATIONS TAKEN AT CP-7, 1400 HRS MST/3 DECEMBER 1976.

ELEVATION	4,694.0	FEET/MSI
PRESSURE	859.4	MBS
TEMPERATURE	9.3	°C
RELATIVE HUMIDITY	24	%
DEW POINT	-10.4	°C
DENSITY	1,057.0	GM/M ³
WIND SPEED		CALM
WIND DIRECTION		CALM
CLOUD COVER		CLEAR

TABLE II. SURFACE OBSERVATIONS TAKEN AT AFSWC #1, 1400 HRS MST/3 DECEMBER 1976.

T-TIME (MIN-SEC)	SPEED (MPH	DIR DEG	T-TIME (MIN-SEC)	SPEED (MPH)	DIR DEG	T-TIME (MIN-SEC)	SPEED (MPH)	DIR DEG
-5.00	2.0	165	-0 9.5	3.0	266	-0 0.50	2.0	266
-4.30	2.0	156	-0 9.0			-0 0.25	1.0	
-4.00	2.0	151	-0 8.5		Z H A	0 0.00	0.0	0.4
-3.30	0.0	147	-0 8.0			+0 0.25	0.0	2.4
-3.00	1.0	201	-0 7.5		12	+0 0.50	0.0	
-2.30	1.0	193	-0 7.0			+0 0.75	1.0	
-2.00	0.0	189	-0 6.5		08 63	+0 1.00	1.0	8-11
-1.45	0.0	186	-0 6.0		00 02	+0 1.25	1.0	
-1.30	0.0	186	-0 5.5		03 8.5	+0 1.50	1.0	266
-1.15	4.0	285	-0 5.0		00 44	+0 1.75	2.0	264
-0.60	3.0	275	-0 4.5		08.24	+0 2.00		261
-0.55	3.0	261	-0 4.0		50.22	+0 2.25		261
-0.50	2.0	258	-0 3.5		34.24	+0 2.50		261
-0.45	2.0	257	-0 3.0		61 232	+0 2.75		260
-0.40	2.0		-0 2.5	3.0		+0 3.00		258
-0.35	2.0		-0 2.0	2.0	0 45 1	+0 3.25		258
-0.30	3.0		-0 1.75		0.11	+0 3.50		257
-0.25			-0 1.50			+0 3.75		257
-2.20			-0 1.25		45.0	+0 4.00		256
-0.15		257	-0 1.00			+0 4.25		256
-0.10	3.0	265	-0 0.75	2.0	266	+0 4.50	2.0	256

TABLE III. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION, POLE NO. 1 03702A HONEST JOHN, MISSILE NO. 1547, ROUND NO. 655 AML LAUNCHED FROM CP-7, 1400 MST/3 DECEMBER 1976

WSTM COORDINATES: X = 406,477 Y = 693,532

T-TIME (MIM-SEC)	SPEED (MPH)	DIR DEG	T-TIME (MIN-SEC)	SPEED (MPH)	DEG	T-TIME (MIN-SEC)	SPEED (MPH)	DIR DEG
+0 4.75	2.0	256	+0 10.00	1.0	256	+0 20.50	1.0	256
+0 5.00			+0 10.50		4 9	+0 21.00		
+0 5.25			+0 11.00			+0 21.50		
+0 5.50			+0 11.50			+0 22.00		
+0 5.75			+0 12.00			+0 22.50		
+0 6.00		0 1	+0 12.50			+0 23.00		
+0 6.25			+0 13.00			+0 23.50		
+0 6.50			+0 13.50			+0 24.00		11
+0 6.75			+0 14.00			+0 24.50		
+0 7.00		9845 0	+0 14.50			+0 25.00		256
+0 7.25			+0 15.00			+0 25.50		257
+0 7.50		S 12 S 10	+0 15.50			+0 26.00	18-4	259
+0 7.75			+0 16.00			+0 26.50		261
+0 8.00		50.8	+0 16.50			+0 27.00		261
+0 8.25	ø	3 3 3	+0 17.00			+0 27.50		262
+0 8.50			+0 17.50			+0 28.00		262
+0 8.75			+0 18.00		25,1	+0 28.50		262
+0 9.00			+0 18.50		25 2	+0 29.00		263
+0 9.25			+0 19.00			+0 29.50		263
+0 9.50	2.0		+0 19.50			+0 30.00	1.0	264
+0 9.75	1.0	256	+0 20.00	1.0	256			

TABLE III (CONT)

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	2012035	CALM
500	001.5	3.0
1000	071.5	2.0
1500	141.5	5.0
2000	191.5	11.0
2500	166.5	10.0
3000	171.5	14.0
3500	186.5	27.0
4000	181.5	28.0
4500	176.5	17.0
5000	171.5	18.0
5500	171.5	15.0
6000	161.5	15.0
6500	166.5	18.0
7000	171.5	17.0
7500	171.5	17.0
8000	166.5	19.0

TABLE IV. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 1
RELEASED FROM CP-17, AT 1330 MST/3 DECEMBER 1976
03702A HONEST JOHN, MISSILE NO. 1547, ROUND NO. 655 AML

PIBAL RELEASE POINT WSTM COORDINATES:

X = 413,576.24 Y = 665,015.33 Z = 4,746.53

APPROXIMATELY: 7 1/2 MILES SOUTH OF LAUNCHER.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR		CALM
500	090	5.0
1000	080	7.0
1500	100	6.0
2000	155	8.0
2500	160	13.0
3000	160	17.0
3500	165	22.0
4000	165	21.0
4500	160	15.0
5000	150	14.0
5500	140	13.0
6000	150	12.0

TABLE V. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 1
RELEASED FROM AFSWC #1, AT 1400 MST/3 DECEMBER 1976
03702A HONEST JOHN, MISSILE NO. 1547, ROUND NO. 655 AML

PIBAL RELEASE POINT WSTM COORDINATES:

X = 418,568.33 Y = 638,753.98 Z = 4,693.89

APPROXIMATELY: 10 MILES SOUTH SOUTHEAST OF LAUNCHER.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	278	2.0
100	278	
200	278	
300	278	
400	274	2.0
500	247	1.5
600	217	1.5
700	195	2.0
800	183	3.0
900	177	3.0
1000	174	2.0
1100	168	1.5
1200	161	1.0
1300	157	1.5
1400	153	1.5
1500	151	1.5

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
1600	154	3.0
1700	156	4.0
1800	156	5.0
1900	160	8.5
2000	161	13.0
2100	162	18.0
2200	162	19.5
2300	162	20.0
2400	161	20.5
2500	161	21.0
2600	160	22.0
2700	160	22.5
2800	159	23.0
2900	159	23.5
3000	159	24.0

TABLE VI. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 1
RELEASED FROM CP-7, AT 1400 MST/3 DECEMBER 1976
03702A HONEST JOHN, MISSILE NO. 1547, ROUND NO. 655

PIBAL RELEASE POINT WSTM COORDINATES:

X = 406,122.94 Y = 693,918.11 Z = 4,844.64

APPROXIMATELY: 600 FEET SOUTH OF LAUNCHER.

TS4	
HRS	
1100	3
	10. 374
16	2 20
3 DEC.	ASCENSIC
	3 DEC. 76 110C HRS MST

11		
2		
VEL	24	
1	C 3	-
-	7	NO
7	8004	LI
•	8	1 T
IC	33	_
-	•	2
N		
9		
SI		

TABLE VII

WSTM SITE COORDINATES 4C37E3.OO FEET E 701403.OO FEET N

ALTITUDE AIR DEWPOINT PERCE MILLIBARS MSL FEET DEGREES CENTIGRADE	PPESSURE	GEO ME TRIC	TEMPE	TEMPERATURE	REL . HUM
MSL FEET DEGREES		AL TITUDE	AIR	DEWPOINT	PERCENT
	MILL IBARS	MSL	DEGREES	CENTIGRADE	

PESSURE	GEO	TEMPERA	URE	
	AL TITUDE	AIR DEW	N	PERCEN
ILL IBARS	MSL	REES CE	16	
8 . 4 . 1	3.3464	0.	-6-6	•
50.	90	3.2		52.0
3.008	£3£2.8	2.1	-5-5	•
820.2	015	2.0	10.5	
	724.	3.6	10	•
	426.	2.5	12.	
	867.	3.7	12.	
	022	5	18.4	
	150.	-1.0 -	21.	
	2807.	נט	23.	
	8C1C.	4.6	33.	
	8861.	•	35.	
	4257.	8	46.	•
	6439.	34.	50.	
	0803.			
	4735.	5		
	6015.	6.93-		

ALITICLE ASSESSED FEET MALE
1100 HRS MST

UPPER AIR DATA 3380041324 STALLION

WSTM SITE COORCINATES 403783.00 FEET E 701403.00 FEET N

TABLE VIII

INCEX OF Refractica	1.000258	•0002€	1.000254	1.000245	1.000240	1.000235	1.000230	1.000225	1.000220	1.000216	1.000211	1.000207	1.000203	1.000199	1.000156	.00019	0001	.00018	00016	1.000179	1.000176	.00017	1.000170	•	.0001€	. 00016	•	.00015	.00015	. 00015
SPEED KADTS	•	•	3.8	7.3	0	14.1	15.1	16.5	16.0	15.3	13.2	10.8	8 • 01	6.6	10.7	2	13.2	m	12.8	12.4	11.5		12.5					16.2		
WINC CATA DIRECTION SI CEGREES(TN) K	6.	333.6	•	333.6	33	333.7	345.0	354.7	357.1	358.7	356.8	352.6	344.6	334.9	325.9	318.9	313.6	309.0	202 .	304.5	03	02	301.4	01	00	01	01	01	02	00
PEEC OF S OU ND KN O TS	649.1	F48.7	6.949	646.6		648.0	647.4	648.4	6.1.9	647.3	646.7	646.1	645.0		642.8		•		•	638.7			634.2						•	•
CENSITY S GM/CUBIC METER	1071.7	1076.7		1037.7	1014.3	95	16	57	941 °C	25	50	3.468	880.3	867.9	853.4	837.8	822.4	808.4	796.5	7.84.7	773.2	761.8	750.6	739.5	28.	718.0	07.	97.		72.
REL.HUM. PERCENT	48.0	01 01 5	53.7	46.4	36.3	3.	31.7	.6	27.6	25.7	~	-	0	20.2	15.4	18.5	7.	17.0	-	17.2	7.	-	17.5	-	-	-	-			9
EMPERATURE DEWPOINT ES CENTIGRADE	J•9-	•	-6.3	-10.3	-10.4	-		12.	-13.8	S	-16.4	-	6	-20.5	-	2	2	~	3	-25.6	3	-	28	9	30	-31.6	2	m	3	~
TEMP AIR DEGREES	0.	3.6	2.1	2.C	3.1	3.2	2.1	3.6	3.1	2.6	2.2	1.7		- • 5	-1.1	-1.3	-1.4	-2.D	-3.2	-4 .5	-5-8	-7.0	-8-3	-9.5	-10.8	-12.1	-13-3	-14.6	-15.1	-15.7
PRESSURE PILLIBARS	854.1	852.2	836.3	820.7	805.4	190.4	175-7	761.2	747.0	733.1	719.4	105.0	692.7	4.619		654.3	641.9	829.6	£17.4	£05.4	£63.7	582.2	£10.9	559.8		538.3		•	507.3	497.1
GEGMETRIC ALTITUDE MSL FEET	8940.0	5000-0	5500° 0	6000.0	6500. C	7000-0	7500.0	8000.0	8500.0	9000-0	9500.0	10000.0	10500.0	11000.0		12000.0	12500.0	13000-0	13500.0	14000-0	14500.C	15000.0	15500.0	15000.0	16500.0	17000-0	17500-0	19000-0	2000	19000-0

NOJ	AL TITUDE	00.0060	STATION ALTITUDE 4940.00 FEET MSL
1 DEC. 76	15	110C HRS MST	HRS MST

UFPER AIR CAT! 3380040324

WSTM SITE COORDINATES

4C37E2.00 FEET E		INDEX CF REFRACTION
בין בין		SPEED KNOTS
		WIND DATA CIRECTION S DEGREES(TN) K
5	CONT)	
STALLION	TABLE VIII (CONT)	REL.HUM. DENSITY SPEED OF PERCENT GM/CUBIC SCUNC METER KNOTS
	Т	REL.HUM. PERCENT
YST		1 0 E
INC HRS		TEMP AIR DEGREES
DEC. 76 110C HRS PST FINCTION NO. 378		METRIC PRESSURE TEMPERATURE ITUDE AIR DENPOIN FEET MILL 19ARS DEGREES CENTIGRA
DEC. 7E		METRI C ITUDE FEET

INDEX CF REFRACTION	1.000149	1.000147	•	1.000142	•	1.000137	1.000135	.00013	1.000131	.00012	.00012	.00012	.00012	1.000121	.00011	.0001	.00011	.0001	.00011	.00010	0	.0001	•	.0001	.0000	0000	0000	1.000054	.0000	-0000
TA SPEED KNOTS	12 ⋅ €	12.7	13.3		5	16.9	8	0			2		5	5		-	0	6	0	-	2		5	-	9	5	;	25.0	9	-
WIND DAT	297.6	295.6	254.1	294.5	256.4	297.7	. 85	98	. 15	96	. 85	.66	00.	02.		05.		02.	99.	. 95	96	. 8 .	.:0	. 13	13.	15.	17.	312.2	. 90	02.
SPEED OF SCUNE KNOTS	623.6	22			611.5	616.0	614.4	612.9	611.3	8 -609	6.8.2	606.6	6.4.9	£03.3	661.7	600.2		597.2			592.7	5.11.2	589.7		586.6	•	583.5	561.9	580.3	576.7
GM/CUBIC METER	662.1		641.5	631.5	621.6	6111.9	602.4	593.1		574.8		556.7	547.5		530.5		512.5	503.7	495.1	4 86 .7		476.2		454.3	46.	436.4	430.7	423.1	5	0
REL .HUM. PERCENT	16.1	16.2	16.3	15.4	16.5	16.6		16.8		17.0	-	-						11.6**	9.5*	7.4.		3.3**	1.300							
TEMPERATURE DENPOINT EES CENTIGRADE	-36.1	-37.6			9.04-		-42.6	-43.5	•		9	-47.5	-48.5							2.	5.	6.69-	-							
TEMP AIR DEGREES	-17.0	-18.2	-19.5	-20.7	-22°C	-23.2	-24.4	-25.7	-26.9	-28.2	-29.4	-30.7	-32°C	-33.4	-34.6	-35.8	-37.E	-38.1	-39.3	-40.5	-41.7	-42.8	0. 44-	-45.2	4° 94-	-47.6	-48.8	-50.1	-51.3	-52-5
PRESSURE MILL TBARS	487.0	477.0	467.2	1.124	448.3	4.19.1	#3E.1	421.3	112.7	804.3	395.8	387.4	379.2	371.1	363.2	354.2	347.4	319.8	312.3	325.0	317.9	310.9	304.1	297.3	290.5	283.8	217.3	270-9		a
SEOMETRIC ALTITUDE MSL FEFT	19500-0	20000-0	20500-0	21000.0	21.00.0	22000.0	22500-0	23000.0	24466.6	2.000.0	24500.0	25000-0	25500.0	260ng. n	26500-0	27000-0	27500-0	28003.0	2850n. 0	2900066	29500.0		30400.0	31000.0	11500.0	320028	32500-0	333366	0	34000-0

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

WSTM SITE COORDINATES 4C37E3.OO FEET E 701403.OO FEET N	INDEX OF REFRACTION 1.000088 1.000086 1.000084
SITE COU 4C37E3-0 701403-0	I REF
HST	0.2
	MIND DATA LIRECTION SI DEGREESITN) KI 259.1
Z4 (CONT)	ITY SPEED OF UBIC SOUNC ER KNOTS 401.3 577.1 393.9 575.6 386.4 574.3 379.1 572.9
338CO4C324 STALLION TABLE VIII (CONT)	REL.HUM. DENSITY SPEED OF PERCENT CM/CUBIC SDUNC METER KNOTS 401.3 577.1 393.9 575.6 386.4 574.3 379.1 572.9
•	PERCENT
T MSL MST	TITUDE AIR DENPOINT IL FEET MILLIBARS DEGREES CENTIGRADE 34500.0 241.1 -55.9 35000.0 241.1 -55.9 35000.0 255.4 -56.9
940.00 FEET M 110C HRS MST	TEMP AIR DEGREES -53.7 -54.8
	111UDE 1 FEET MILL TBARS 3450C.C 246.9 35000.0 246.9 35000.0 246.9
TATION ALTITUDE 9 1 DEC. 76 SCENSION NO. 324	COMETRIC TITUDE 34 FRC C 34 FRC C 35000-0

STATION ALTITUDE 494C.CC FEET MSL T DEC. 76 1100 HRS MST ASCENSION NO. 724				
STATION ALTITUDE 494C.CC FEET T DEC. 76 1100 HRS M ISCENSION NO. 724			21	MSL
STATION ALTITUDE 49AC.CC FE T DEC. 76 1100 HRS ISCENSTON NO. 724			2	E
STATION ALTITUDE 494C.CC T DEC. 76 1100 ISCENSTON NC. 774			HRS	FE
STATION ALTITUDE 49 T DEC. 76 ISCENSTON NO. 724			1100	45.00
STATION ALTITUDE T DEC. 76	•			0
TATION ALTIT T DEC. 76				COE
T DEC. 76				11
T DEC.		2 2	16	AL
TAT	1	157	FC.	ION
. 4	1	ASCF	4	STAT

MANDATORY LEVELS 33EDG4C324 STALLION

WSTM SITE CCORCINATES 403783.00 FEET E 7C14C3.00 FEET N

TABLE IX

PRESSURE GEOPOTENTIAL	CPOTENTIAL	TEMP	TEMPERATURE	REL . FUM .		A
MILLIBARS	FEET	AIR	DEWPOINT CENTIGRACE	PERCENT	OIRECTION CEGREES(TK)	SPEED
850.0	5067.	3.2	-5.1	52.	333.6	6.
800.0	6675.	3.5	-10.4	35.	333.6	11.9
7.50.0	R391.	3.2	-13.5	28.	356.7	16.2
700.0	10219.	1.5	-18.4	21.	350.0	8.6
0.059	12163.	-1.3	-22.4	18.	316.9	12.7
600.0	14244.	-5.1	-26.1	17.	304.1	12.1
5.50 • 0	16463.	-10.7	-30.5	18.	300.7	15.6
2000	18842.	-15.4	-35.4	16.	301.0	13.9
J.05.	21420.	-21.7	4.04-	16.	256.2	15.4
400.0	24226.	-28.8	0.94-	17.	297.5	21.8
3.065	27311.	-36.6	-54°E	14.00	305.1	20.6
300.0	30755.	-44.7			305.5	25.6
250.0	34673.	-54.3			257.6	30.4

.. AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

	TATION	ALTITUDE	STAITON ALITICUE 4940.CC PEET MSL
16	T DEC.	16	1400 HRS MST

-		
-		
4		
0		
_		
W	9	
>	2	
w	1	
_	u	z
_	5	0
-	Ü	-
Z	2	_
-	3	5
2	P)	A
H	3	-
4		S
IF		
Z		
0		
H		

TABLE X

NSTM SITE CCORCINATES 403783.00 FEET E 7C14C2.00 FEET N

PRESSURE	GECMETR	ENP	œ	:
	ALTITUDE	AIR	DEWPOINT	PERCENI
MILLIBARS	MSL FEE	CEGREES	NTIG	
951.4	0.0464	60	9.5-	
85C.C	984.		-1-1	37.6
	C45.	3.4	6.8-	0
	528	4.1	-15.7	
	229.	4.3	-10.9	2.
1000	C1 61.	1.2	-16.6	£.
	2080-	9 -		.6
	6434.	11.	25.	2
	8047.	13.	-32.1	
	8754.	15.	33	6
	4180.	9		
	6635.	35	-45.1	3
	9675.	5		
	0709.			
	4645.	3		
	146	•		

33	MSL	FEET	33-3464	ATICN ALTITUDE 494C.CC FEET MSL	ATICN

					LIEN MIN	2 - 2 - 2				
	TITUDE 49	SC.CC FE				92		WSTH SIT	E COORCINATE	
ACENCICN NC	325	14 CO HRS M	#ST		ALL			403	3783.00 FEET E	
	•				TABLE XI					
GECHETRIC	PRESSURE	-	EMPERATURE	REL . HUM.		SPEEC OF	INC	ATA	INCEX	
AL TI TUDE		AIR	0	PERCENT	M/ CUBIC	S	IRECTION	SPEED	96	
PSL FEET	FILIBARS	DEGREES	CENT IGRADE		METER	KNOTS	CECREES(TN)	KKOTS	REFRACTION	
0.0%6	951.4	8 8	9.6-		050	8.439	•		000	
2.0077		6.5	-7.1	-	USE			r;	000	
5500.0	833.8	5.0	-8-0	38.5	2		338.5	3.1	#	
1.0008		10 · E)	18.8		CZE			5 . 6	000	
6500-0		3.5	₩.6-	-	600			8.7	00024	
7000.		3.0	-10.C	Š		•	•	11.5	.00023	
750n.0		4.1	10	~					00023	
90008	75	4.2	10	•	2	•	250 • 3		00022	
8500.0		3.9	11	1.	2.		351.1	16.9	00022	
3.0006	731.3	3.1	~		-	•	3 4 8 °C	15.1	00021	
9500.0		2.3	14	-			343.7	13.9	.00021	
J-030UL 7		1.5	16		2.			14.4	COCZC	
10500		6.	-17.4	M		645.2		15.1	0000	
11000.0	678	•	18	5	N	•	•	•	.0001	
11500.0	665.3	1	13	0	•				.00019	
12000-0		k. • 1	-21.1				•	•	.0001	
12500.0	4	-1-1	22	9.	-				.00018	
13000-0	657.9	-2.0	22					•	0001	
13500-0	615.8	-4.2	23	•	-			•	.00018	
14000-0	-	10.01	-24.7	20.3	10		•	8 . 8	.00017	
14500-0	592.3	-6.8	25	•			•	•	.00017	
15000-0	J8 5	-8.€	-26.4	-	m		•	•	.00017	
15500.0		-9.3	27	-	52		•	•	00017	
16000-0	R.	-10.E	-28.3	-	41			•	.0001	
16500-0	548.0	-11 .8	-29.2		30			•	00016	
17000-0	537.2	-12-3	30	20.5	17			•	•0001€	
17500.0	. 97	-12.9	31		5	•		•	.00015	
18000.0	516.	•	-35°C	•	62		•	•	.0001	
18500-0	505	3	-33.1	19.0	681.6	626.4	309.8	14.1	1.000154	
19000.0			34		7				.0001	

UPPER AIR DATA	3380040326	STALLION	TABLE XI (CONT)
	STATION ALTITUDE 49AC.CC FEET MSL	3 DEC. 76 1400 HRS MST	ASCENSION NC. 326

S	W	Z
Ε	FEET	-
2	E	FEE
13	L	-
200	403783.00	9
5	•	0
S	83	C
3	2	3
-	0	701403
	•	-
E		
KN		

INCEX	0F	REFRACTICA
T A	SPEED	KADIS
WINC CATA	DIRECTION SPEED	CECREES(IN) KADTS
SPEEC OF	S DU ND	KNOTS
CENSITY	GM/ CUBIC	METER
REL . HUM.	PERCENT	
TEMPERATURE	DEWPOINT PERCENT GM/CUBIC SOUND	MSE FEET MILLIBARS DEGREES CENTIGRADE
TEPP	AIR DE	DEGREES
		PILLIBARS
GECMETRIC	AL TI TUDE	MSE FEET

INCEX OF Refraction	.0001	1.000144	.0001	•	•	.000	1.000133	.000	.000	.000	.000	1.000123	1.000120	1.000118	1.000116	1.000114	1.000112	1.000111	1.000109	1.000107	1,000105	.0001	.00010	•	. 00000	•	60	•	• 00000
SPEED KNOTS		14.8		16.7	17.8		39.5	20.4	21.4	21.6	21.6	21 .4	21.4	21.5	22 · C	22.2	22.1	21.3	20 • 1	17.7	•	14.2		15.5	17.9	20.7		26.2	
WINC CA DIRECTION CEGREES(TN)	305.9	299-7	256.5		254.5		292.4								•		285.3	•			293.8	80					299.5		
SPEEC OF S OUND KN 0TS	23.	621.6	618.4	616.7	615.1	613.4	611.8	610.1	666.5	6.608	665.5	604.0	602.5	601.0	4.000	597.7	256.0	554.3	592.9	551.6	590.4	5 8 5 • 1	587.7	5 86 .3	584.9	5 83.4	582.0	5.093	579.1
CENSITY GM/CUBIC METER		540.8 640.8		621.3	611.8	602.5	5.53.4					547.7					504.2	•	487.4	478.5	469.9		-	444.8		2	421.1	~	406.1
REL.HUM. PERCENT	19.1	19.3	16.4	19.5	15.6	19.7	15.8	.6	C		:	21.6	2.	22.8	a	3	7.6**	2.0**											
EPPERATURE DEWPOINT ES CENTIGRADE		-36.3		M	9.04-	8	-42.8		45	45	46	47	48	8	51.	-55.1	9	-71.7											
TEMP AIR DEGREES	17	-18-6-	:	2.	-23.9	-25.2	-26.6	-27.9	-29.2		-31.6	-32.8	-34.0	-35.2	-36.5	-37.8	-36-1	-46.4	-41.5	-42-5	-43.5		-45.5	9.94-	8-14-				-52.2
PRESSURE PILLIBARS	485.6	47.4		947.0	437.8	478.8	420.0	411.4	403.0		1.88.			361.9	354.0		336.8	331.4	324.0	316.8	309.7			285.2		276-1	4	•	9-152
GECMETRIC ALTITUDE MSL FEET	19500.0	20200-0	1000.	21500.0	22000-0	22500-0	23000-0	23500-0	24000-0	24500.0	25000.0	25500-0	26000-0	25500.0	27006-0	27500-5	28000.0	28500.C	24000-0	29500-0	-000u	30500.0	31000.0	31500.0	32000.0	32500-0	33000-0	200	34000-0

** AT LEAST ONE ASSUMED RELATIVE FUMICITY VALUE WAS USEC IN THE INTERPOLATION.

WSTM SITE CCORCINATES 403783.00 FEET E 7C14C2.00 FEET N	INCEX OF FEFRACTICA	1.000089 1.000087 1.000085
NSTH SITE 4037 7614	PEED	28.5
	WINC CATA DIRECTION S CECREES(IN) K	301.3
DATA 26 ONT)	T.	398.8 577.7' 391.1 576.5 383.3 575.4 375.7 574.4
UPPER AIR DATA 338CC4C326 STALLION TABLE XI (CONT)	CENSITY GM/ CUBIC METER	398.8 391.1 383.3
5	REL. HUM. CENSITY SPEEC OF PERCENT GM/CUBIC SOUND METER KNOTS	
T MS L M S T		
INGO HRS MST	TEMP AIR CEGREES	158.3 158.2 155.0
326 326	GECMETRIC PRESSURE TEMPERATURE ALTITUDE AIR DEMPOINT MSL FEET MILLIBARS CEGREES CENTIGRADE	245.8 246.1 234.4
STATION ALTITU T DEC. 76 ASCENSION NC.	EECMETRIC PRESSURE ALTITUDE MSL FEET PILLIBARS	34500.0 35000.0 35500.0

MANDATORY LEVELS	3380040326	STALLION	TABIE VII
	STATION ALTITUDE 4940.00 FEET MSL	3 DEC. 76 140C HRS MST	ASCENSION NO. 326

TABLE XII

n	w	Z
I NA TE S	FEET	FEET
COORD	62.00	03.00
SITE	4637	70140
MIN		

KIND CATA	SPEED	KNOTS	.2	9.3	16.9	3.4
	DIRECTION	CEGREES(TN)			351.0 1	
	PERCENT		37.	37.	32.	26
TEMPER ATURE	DEWPOINT	CENTIGRACE	-7.1	5.5.	-11.2	-16.6
	AIR	DEGREES	6.5	3.7	4.1	1.2
PRESSURE GECPOTENTIAL		FEET			8324.	
PRESSURE		MILLIBARS	850.0	0.009	750.0	זרחים

		•			_	_	10		5		_	~
•	6	16.9	14.6	12.6	61	14.3	14.	16.4	21 .!	22.2	14.1	28.
338.5	336.5	351.0	138.7	330.6	201.6	301.1	308.7	294.5	287.1	282.6	255.7	301.2
37.	37.	32.	25.	19.	20.	22.	15.	19.	20.	16. **		
-7-1	5.5-	-11.2	-16.6	-21.4	-25°C	0.62-	-33.1	-39.2	4.54-	-53.6		
6.5	3.7	4.1	1.2		6.3-	-11.6	-15.4	-22.2	-25.7	-37.2	-44-9	-53.6
4983.	6603.	8324.	10155.	12104.	14181.	16392.	18774.	21350.	24145.	27226.	30660.	34583.
850.0	0.008	750.0	100.0	650.0	0.003	550.0	2000	450.0	J. 00 P	350.0	3000	250.0

** AT LEAST ONE ASSUMED RELATIVE HUMICITY VALUE WAS USED IN THE INTERPOLATION.

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